Chart 1

Sort SUBMITTED_BIDS int
SORTED_BIDS
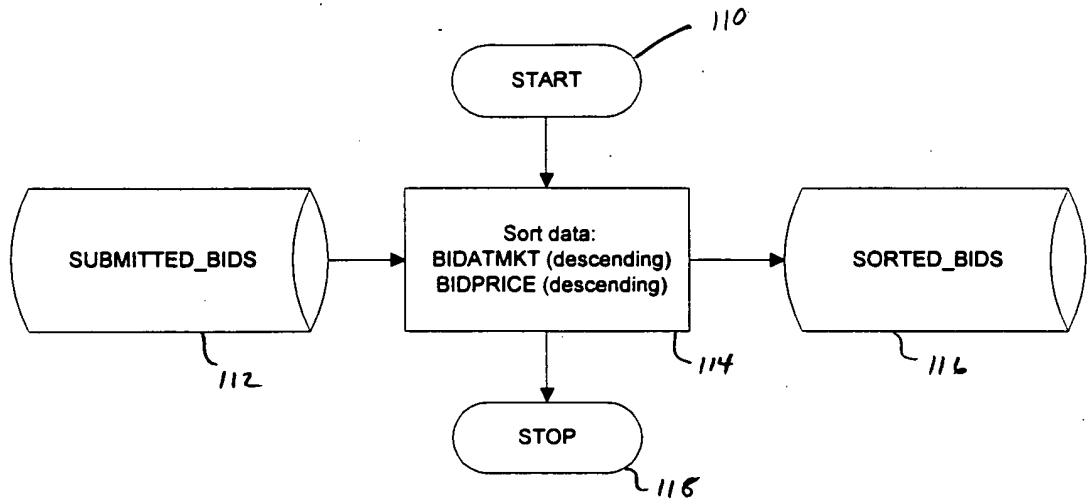
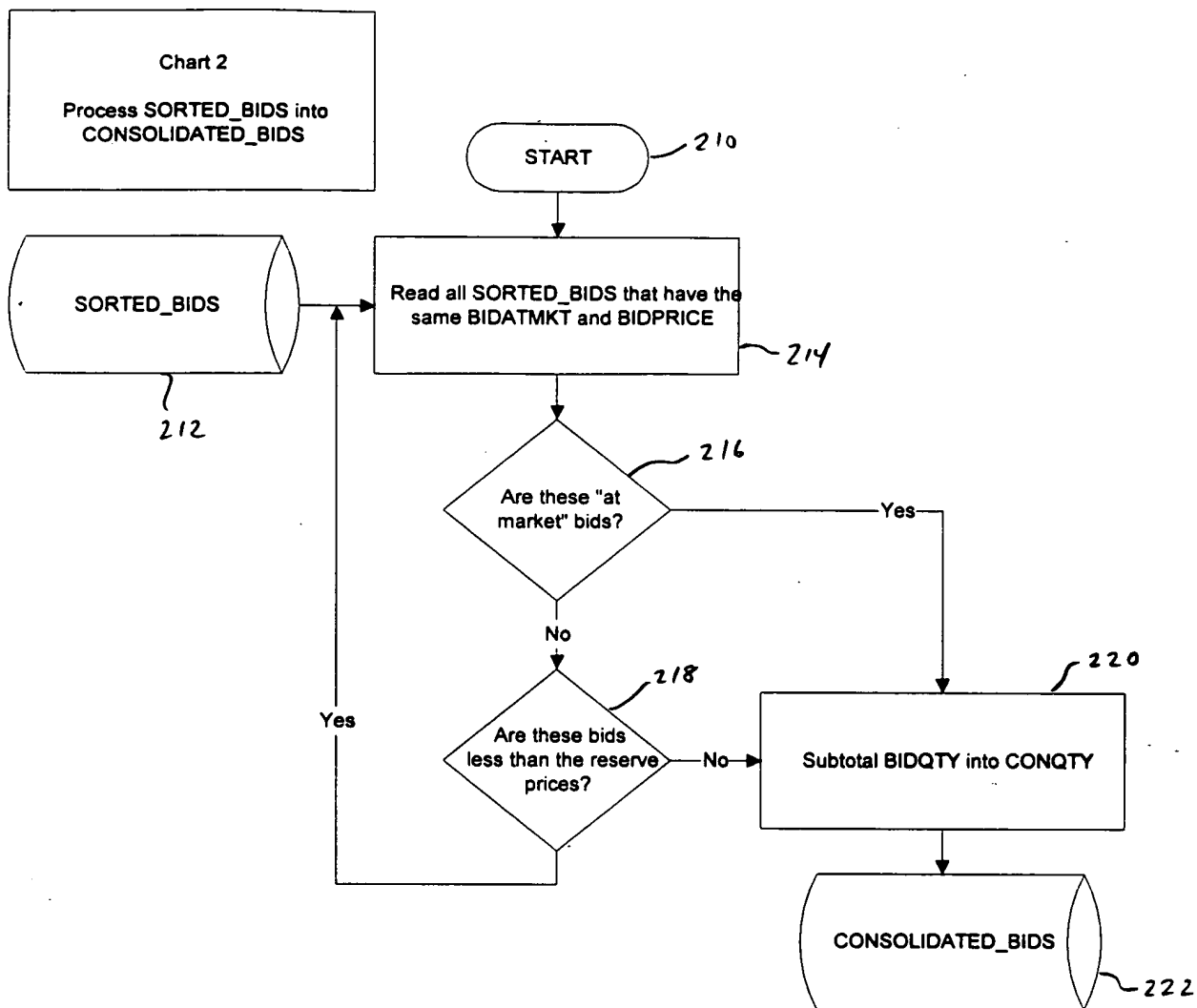START 110

| SUBMITTED_BIDS | | Sort data:
BIDATMKT (descending)
BIDPRICE (descending) | | SORTED_BIDS |

112   114   116

STOP
116

Fic 1

Chart 2

Process SORTED_BIDS into
CONSOLIDATED_BIDS

START — 210

SORTED_BIDS

212

Read all SORTED_BIDS that have the
same BIDATMKT and BIDPRICE

214

Are these "at
market" bids? — 216

Yes

No

Are these bids
less than the reserve
prices? — 218

No

Yes

Subtotal BIDQTY into CONQTY — 220

CONSOLIDATED_BIDS — 222

Fig 2

Chart 3A

Process CONSOLIDATED_BIDS

START — 310

Set GOFLAG
QCUM=0
AFLAG=0
NHIGH=0
PREVHIGH=COST(0) — 312

338 — B

CONSOLIDATED_BIDS

314

Are there
more bids and is
GOFLAG set? — 316
No → STOP — 318

Yes

Read bid — 320

Is this an "at
market" bid? — 322
Yes → QCUM=QCUM+CONQTY — 324

No

Is there
sufficient supply to
fill this bid? — 326
No → Possible allocation situation. Determine which bids to accept according to allocation policy and procedures define in Step 3.D — 330

Yes

QCUM=QCUM+CONQTY
TAFLAG=1 — 328

Unset GOFLAG
Set QCUM equal to the total quantity o potentially acceptable bids — 332

Set TAFLAG>1
The specific values are defined by the seller in Step 3.D — 334

A — 336

Fig 3A

Chart 3B

Process CONSOLIDATED_BIDS

A ~ 340

Calculate the
PROFIT from filling   ~ 342
this bid

Is PROFIT=
PREVHIGH? ~ 344 →Yes→ NHIGH=NHIGH+1 ~ 346 → Is MNMXFLAG=1? ~ 348

No

Is PROFIT>
PREVHIGH? ~ 350 →Yes→ NHIGH=1 ~ 352

Yes

Save PRICE
PREVHIGH=PROFIT ~ 354
AFLAG=TAFLAG

No

No

B ~ 356
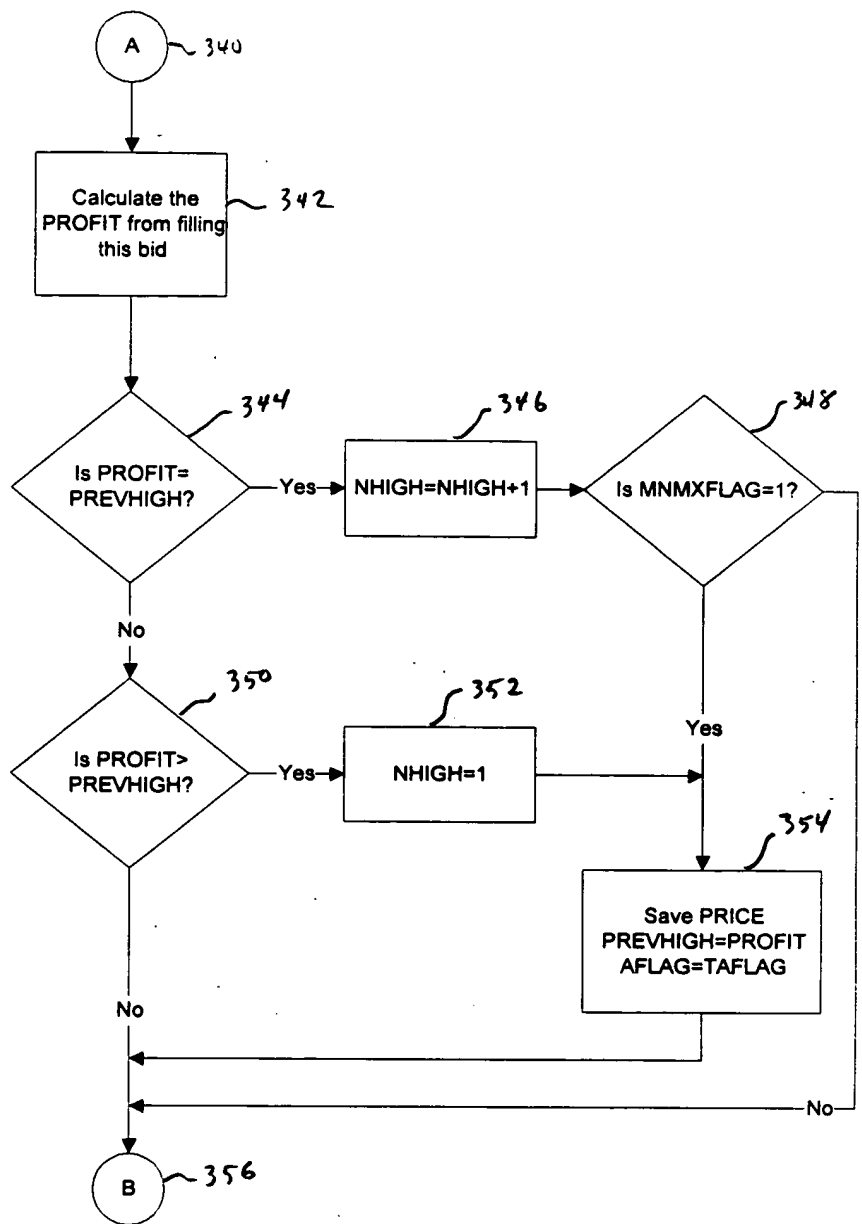
F.G 3B

Chart 4

Process SUBMITTED_BIDS int BID_STATUS

START — 410

SUBMITTED_BIDS — 412

Read a bid — 414

AFLAG=0? — 416 — Yes → AWARDQTY=0 — 418

No

BIDPRICE>PRICE? — 420 — Yes → AWARDQTY=BIDQTY — 422

No

AFLAG=1 and At market bid? — 424 — Yes → AWARDQTY=BIDQTY — 426

No

BIDPRICE<PRICE? — 428 — Yes → AWARDQTY=0 — 430

No

Possible allocation situation. Evaluat and prorate based on procedures defined in Step 3.D — 432

BID_STATUS — 434
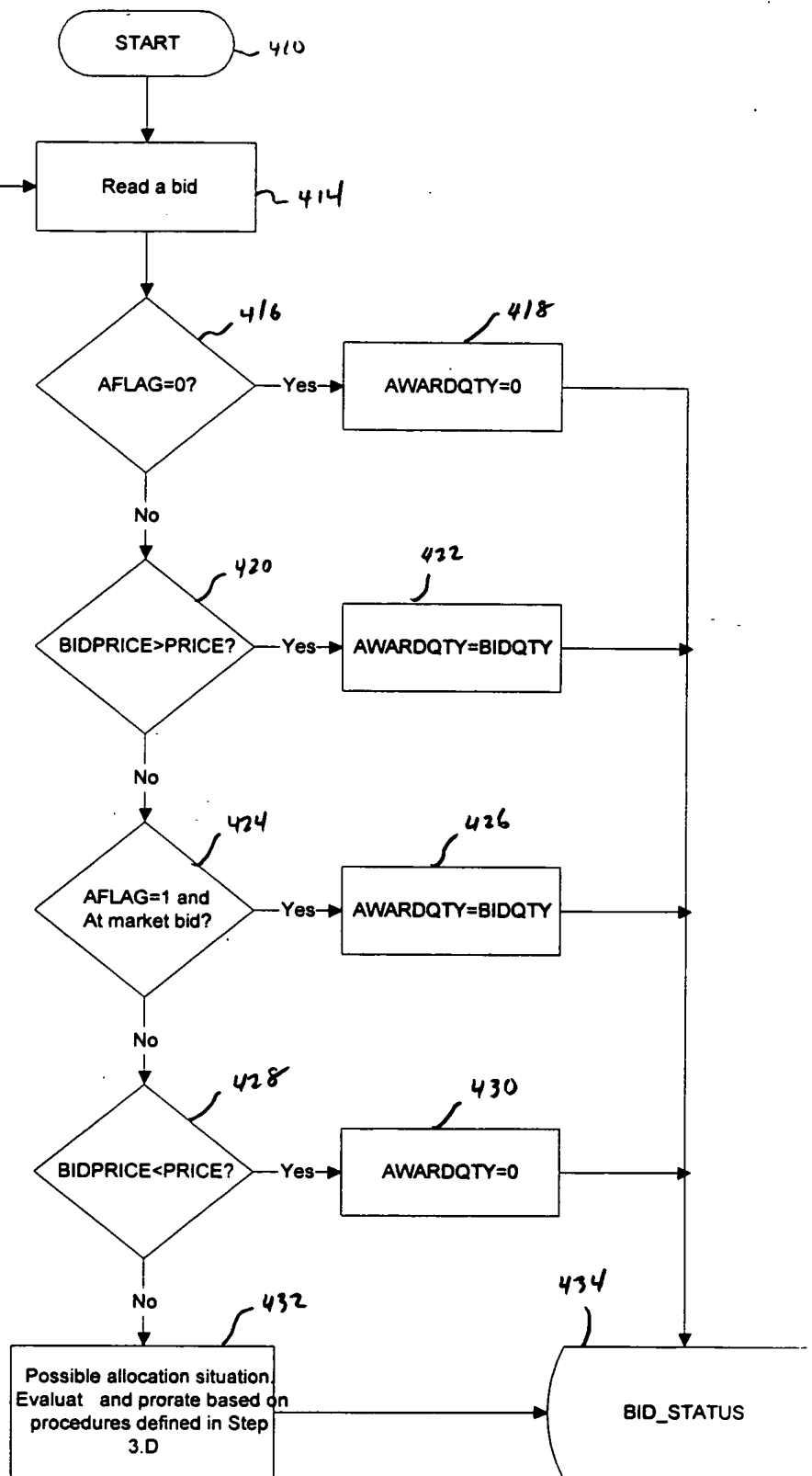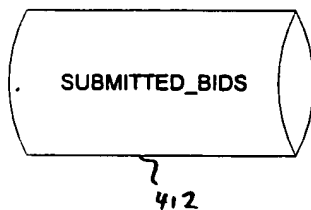
Fig 4

FIGURE 5

	bid price	bid quantity
Bid No 1:	7200	100
Bid No 2:	6800	100
Bid No 3:	5200	100
Bid No 4:	3200	100
Bid No 5:	6000	100
Bid No 6:	8400	100
Bid No 7:	10000	300
Bid No 8:	8800	100
Bid No 9:	7600	100
Bid No 10:	3600	100
Bid No 11:	9600	100
Bid No 12:	2400	100
Bid No 13:	2800	100
Bid No 14:	9200	100
Bid No 15:	8000	100
Bid No 16:	6400	100
Bid No 17:	5600	100
Bid No 18:	4000	100
Bid No 19:	4800	100
Bid No 20:	4400	100

FIGURE 6

bid price		bid quantity	$\sum$quantities	revenue (x1000)
10000	-No 7	300	300	3000
9600	-No 11	100	400	3840
9200	-No 14	100	500	4600
8800	-No 8	100	600	5280
8400	-No 6	100	700	5880
8000	-No 15	100	800	6400
7200	-No 1	100	900	6840
7600	-No 9	100	1000	7200
6800	-No 2	100	1100	7480
6400	-No 16	100	1200	7680
6000	-No 5	100	1300	7800
5600	-No 17	100	1400	7840
5200	-No 3	100	1500	7800
4800	-No 19	100	1600	7680
4400	-No 20	100	1700	7480
4000	-No 18	100	1800	7200
3600	-No 10	100	1900	6840
3200	-No 4	100	2000	6400
2800	-No 13	100	2100	5880
2400	-No 12	100	2200	5280